

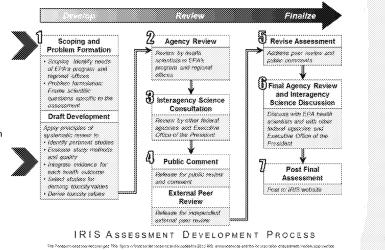
IRIS Process Refresher (Step 1)

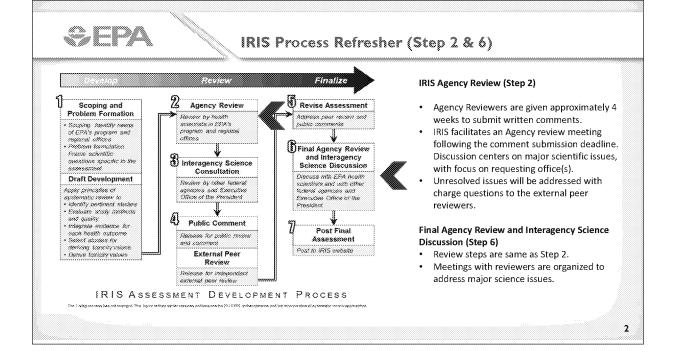
IRIS Assessment Plan

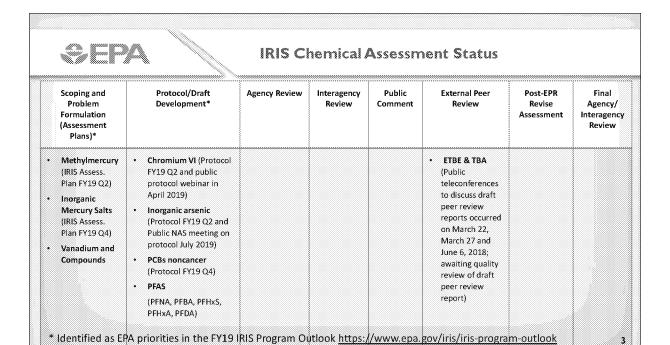
- Agency Reviewers are given approximately 2 weeks to submit written comments.
- IAP is revised in response to Agency review, with focus on requesting office(s), and released for a 30-day public comment period.
- Public Meeting is convened to discuss IAP.

IRIS Systematic Review Protocol

- If major science issues were identified between IAP release and completion of the protocol, requesting office(s) will be engaged.
- IRIS presents an informational briefing on the protocol at an EPA-Wide IRIS Call.
- Protocol is released for a 30-day public comment period.







3



IRIS Chemical Assessment Status

Hexavalent Chromium

Chemical Managers:

Catherine Gibbons (gibbons.catherine@epa.gov)

Alan Sasso (sasso.alan@epa.gov)

Project history: https://cfpub.epa.gov/ncea/iris2/chemicalLanding.cfm?substance_nmbr=144

Highlights	lighlights of Recent Engagement and Current Information on the IRIS Database	
1998	Cr(VI) Toxicological Review Posted to the IRIS Database - Known human carcinogen by inhalation; not classifiable by ingestion - Includes RfD, RfC, and IUR; no OSF	
2011	External Peer Review meeting on the 2010 draft assessment (oral exposure only) — Decision to incorporate new science and revise the assessment	
2013	IRIS conducts a workshop on issues regarding gastrointestinal reduction, absorption, and transit of ingested Cr(VI) in rodents and humans	
2014	IRIS releases two preliminary packages for Cr(VI) for public review and discussion	
Current Scope	Assessment aims to update the existing toxicity values (i.e., RfD, RfC, and IUR), and, if possible, derive a new OSF.	

Next steps:

• Public release of IRIS Protocol in March 2019 and host a Public Science Webinar: April 24, 2019 (tentative)



Inorganic Arsenic

Chemical Managers:

Project history: https://cfpub.epa.gov/ncea/iris2/chemicalLanding.cfm/substance_nmbr=278

- Janice Lee (lee.janices@epa.gov)
- Allen Davis (davis.allen@epa.gov)

Highlight	Highlights of Recent Engagement and Current Information on the IRIS Database	
1988	Inorganic Arsenic Toxicological Review Posted to the IRIS Database - Known human carcinogen; Includes RfD, IUR, and OSF; no RfC	
2013	IRIS held a public planning/scoping meeting for development of new ToxRev-iAs and held eight science issues public webinars	
2013	NRC released the interim report, Critical Aspects of EPA's IRIS Assessment of iAs and provided recommendations in support of EPA's plan	
2014	Public science meeting on the assessment development plan, preliminary materials, and key science issues	
2015	IRIS briefed the newly empaneled NRC committee on the status of iAs assessment	
Current Scope	Assessment aims to derive a new noncancer toxicity value for inhalation exposure and update the existing toxicity values for oral exposure (cancer and noncancer) and the inhalation toxicity value for cancer, focusing on epidemiologic data	

Next steps: Public release IRIS Protocol in Q2 FY19 and NAS meeting no earlier than Q4 FY19 (being rescheduled from March 2019 due to shutdown)

5



Chemical	Chemical Manager
PFBA	Allen Davis (davis allen@epa.gov) Michele Taylor (taylor.michelem@epa.gov)
PFHxA	Michelle Angrish (angrish michelle@epa.gov) Laura Dishaw (dishaw laura@epa.gov)
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PFNA	Andrew Kraft (kraft.andrew@epa.gov) Pam Noyes (noyes.pamela@epa.gov) Michele Taylor (taylor.michelem@epa.gov)
Current Scope	Assessments will aim to derive new cancer and noncancer toxicity values based on the available data (note: expecting only oral noncancer values)

Project history: Scoping and problem formulation were initiated as part of the EPA-wide PFAS efforts.

Next steps: Public release of the Protocol in FY19 Q3 followed by phased Agency Review (i.e., moving through the process in two groups)

6



Polychlorinated Biphenyls (PCBs)

Chemical Managers:

- * Geniece Lehmann (lehmann.geniece@epa.gov)
- Laura Carlson (carlson laura@epa.gov)

https://cfpub.epa.gov/ncea/iris2/chemicalLanding.clm?substance_nmbr=294

	Highlights of Recent Engagement and Current Information on the IRIS Database		
1993 – 1996	PCBs, including Aroclors 1016 and 1254 to IRIS - Probable human carcinogen; - Includes RfD (1993 and 1994); IUR/OSF (1996)		
2015	Preliminary Assessment Materials of the IRIS assessment of PCBs is posted		
Current Scope	Assessment aims to derive <u>new noncancer toxicity values</u> for environmental PCB mixtures		

Notes: Preliminary materials (not in current IRIS format, but including P.E. decisions) discussed with public; protocol and drafts to be consistent with current NCEA systematic review practices

Next Steps: Systematic Review Protocol FY19 Q4

Methylmercury (MeHg)

Chemical Managers:

- Leonid Kopylev (kopylev leonid@epa.gov)
- Deborah Segal (segal.deborah@epa.gov)

Project history: https://cfpub.epa.gov/ncea/iris2/chemicalLanding.cfm?substance_nmbr=73

Highlights of Recent Engagement and Current Information on the IRIS Database	
1995 - 2001	Methylmercury Toxicological Review Posted to IRIS - Possible human carcinogen; no OSF (1995) - Includes RfD (2001)
2017	IRIS distributes the IRIS Assessment Plan (IAP) for Methylmercury for an internal EPA review
2019	IRIS anticipates releases the IAP for public comment and discussion at an IRIS Public Science Meeting
Current Scope	Assessment aims to <u>update the existing RfD</u> , focusing on epidemiologic studies examining developmental neurotoxicity

Next Steps: Anticipated IAP release in March 2019 for public comment and public science meeting date - April 2019 (tentative)



Inorganic Mercury Salts

Chemical Manager:

• Nagalakshmi (Nagu) Keshava (<u>Keshava nagu@epa.gov</u>)

Project history: https://cipub.epa.gov/ncea/iris2/chemicall.anding.cfm?substance _nmbr=692

	ighlights of Recent Engagement and Current formation on the IRIS Database	
1995	Mercuric chloride (HgCl2) to IRIS - Possible human carcinogen; - Includes RfD (1995); no OSF or IUR	
2019	IRIS anticipates releasing the IRIS Assessment Plan for public comment	
Current Scoping	Assessment aims to update the existing RfD and derive new toxicity values for noncancer (inhalation exposure) and cancer, based on available data	

Next Steps: Anticipated IAP release for public comment and public science meeting in Q4 FY19

Vanadium and Compounds

Chemical Managers:

• TBD

Project history: https://cfpub.epa.gov/ncea/iris2/chemicalLanding.cfm/substance_nmbr=125

Highlights of Recent Engagement and Current Information on the IRIS Database	
1987	Vanadium and Compounds to IRIS – Includes RfD (1987); no RfC, OSF, or IUR
TBD IRIS anticipates releasing the IRIS Assessment Plan as the next public step	

Next Steps: Scoping meetings Q2-Q3 FY19

8



Tert-Butyl Alcohol (Tert-Butanol)

Chemical Manager:

- Janice Lee (lee.janices@epa.gov)
- Andre Weaver (weaver.james@epa.gov)

Project history: https://cfpub.epa.gov/ncea/iris2/chemicali.anding.cfm?&substan ce_nmbr≕1036

Ethyl Tert-Butyl Ether (ETBE)

Chemical Manager:

- Andre Weaver (<u>weaver.james@epa.gov</u>)
- Kathleen Newhouse (newhouse kathleen@epa.gov)

Project history: https://cfpub.epa.gov/ncea/iris2/chemicall.anding.cfm?&substance_nmbr=1034

	Highlights of Recent Engagement and Current Information on the IRIS Database	
	2013	Preliminary Assessment Materials of the IRIS assessment of ETBE is posted and discussed at an IRIS Public Science Meeting
	2016	Public Comment Draft of the IRIS assessment of ETBE is posted and discussed at an October IRIS Public Science Meeting
	2017	External Peer Review Draft of the IRIS assessment of ETBE and TBA is posted and transmitted to the Science Advisory Board (SAB) Chemical Assessment Advisory Committee (CAAC)
	2017	The IRIS Assessments of ETBE and TBA are discussed at a public face-to-face peer review meeting in August 2017
ı	2019	IRIS anticipates receiving the final SAB CAAC peer review report

Next Steps: Document revision followed by Agency/Interagency review.